- 3. The nucleic acid of claim 1 wherein the antibody specifically binds to Apo-2 polypeptide and further specifically cross-reacts with another Apo-2L receptor.
- 4. The nucleic acid of claim 1 wherein the antibody specifically binds to Apo-2 polypeptide and further specifically cross-reacts with DR4.
- 5. The nucleic acid of claim 1 wherein the antibody is an agonistic antibody.
- 6. The nucleic acid of claim 1 wherein the antibody is a blocking antibody.
- 7. The nucleic acid of claim 1 wherein the antibody is an antibody fragment.
- 8. The nucleic acid of claim 1 wherein the antibody comprises non-human hypervariable region residues and human framework region residues.
- 9. The nucleic acid of claim 1 wherein the antibody is a human antibody.
- 10. The nucleic acid of claim 1 wherein the Apo-2L receptors are native sequence Apo-2L receptors.
- 11. The nucleic acid of claim 5 wherein the agonistic antibody binds to Apo-2 polypeptide or DR4.
- 12. An isolated nucleic acid comprising DNA encoding an antibody having the biological characteristics of a monoclonal antibody selected from the group consisting of 3H1.18.10 (produced by the hybridoma having ATCC Accession No. HB-12535), 3H3.14.5 (produced by the hybridoma having ATCC Accession No. HB-12534) and 3D5.1.10 (produced by the hybridoma having ATCC Accession No. HB-12536).

- 13. The nucleic acid of claim 12 wherein the antibody binds to the same epitope as the epitope to which a monoclonal antibody selected from the group consisting of 3H1.18.10 (produced by the hybridoma having ATCC Accession No. HB-12535), 3H3.14.5 (produced by the hybridoma having ATCC Accession No. HB-12534) and 3D5.1.10 (produced by the hybridoma having ATCC Accession No. HB-12536) binds.
- 14. The nucleic acid of claim 12 wherein the antibody has the hypervariable region residues of a monoclonal antibody selected from the group consisting of 3H1.18.10(produced by the hybridoma having ATCC Accession No. HB-12535), 3H3.14.5 (produced by the hybridoma having ATCC Accession No. HB-12534) and 3D5.1.10 (produced by the hybridoma having ATCC Accession No. HB-12536).
- 15. A vector comprising the nucleic acid of claim 1.
- 16 A host cell comprising the nucleic acid of claim 1.

Please cancel claim 17 without prejudice.

Please amend claim 18 to read as follows:

- 18. (Amended) A method of producing an antibody comprising culturing the host cell of claim 16 under conditions wherein the DNA is expressed and the antibody is recovered from the host cell culture.
- 19. The method of claim 18 further comprising combining the recovered antibody with a pharmaceutically acceptable carrier.
- 20. The method of claim 18 further comprising conjugating the recovered antibody with a heterologous molecule.
- 21. The method of claim 20 wherein the heterologous molecule is polyethylene glycol, a label or a cytotoxic agent.